Serial No. 10/085,346

PD-200336

## IN THE CLAIMS

Please amend claims 1, 6, 10, 15, 19, 24, 28, and 33 as follows:

1	1.	(CURI	RENTLY AMENDED) A system for controlling access to digital services	
2	comprising:			
3	(a)	a conti	rol center configured to coordinate and provide digital services;	
4	(b)	an upli	ink center configured to receive the digital services from the control center	
5	and transmit t	he digital services to a satellite;		
6	(c)	the sat	ellite configured to:	
7		<b>(i)</b>	receive the digital services from the uplink center;	
8		(ii)	process the digital services; and	
9		(iii)	transmit the digital services to a subscriber receiver station;	
10	(d)	the sul	oscriber receiver station configured to:	
11		<b>(1)</b>	receive the digital services from the satellite;	
12		(ii)	control access to the digital services through an integrated	
13	receive	ver/decoder (IRD);		
14	(e)	a cond	litional access module (CAM) communicatively coupled to the IRD,	
15	wherein the CAM comprises:			
16		(i)	a nonvolatile memory component, wherein:	
17			(1) the nonvolatile memory component is used to contain state	
18		inform	nation to provide desired functionality and enforce one or more security	
19		policie	es for accessing the digital services; and	
20			(2) the nonvolatile memory component is protected from	
21		modifi	cation such that the nonvolatile memory component is read only; and	
22			(3) access to the nonvolatile memory component is isolated;	
23		(ii)	a hidden non-modifiable identification number embedded into the	
24	nonvolatile memory component, wherein:			
25			(1) the identification number uniquely identifies the CAM: and	

3

identification numbers.

PD-200336 Serial No. 10/085,346 the identification number is used to limit a cloning attack wherein 26 said cloning attack comprises copying the identification number to a new CAM; 27 28 and a fixed state custom logic block, wherein the nonvolatile memory 29 (iii) component is not directly accessible via a system bus and access to the nonvolatile 30 memory component is limited to the custom logic block. 31 (ORIGINAL) The system of claim 1 wherein the nonvolatile memory 1 2 component is isolated such that a system input/output module, microprocessor, or external environment is prevented from direct access to the identification number. 3 1 3. (ORIGINAL) The system of claim 1 wherein the identification number is 2 embedded after manufacturing. 1 4. (ORIGINAL) The system of claim 1 wherein the custom logic block is 2 permitted to read the identification number. 1 5. (ORIGINAL) The system of claim 4 wherein a function defined in the custom 2 logic block specifies an operation to be performed using the hidden identification number. 1 (CURRENTLY AMENDED) The system of claim 1 further comprising 2 2 onetime programmable memory protected by a hardware fuse that isolates the identification 3 number from the a microprocessor after the identification number is written. 1 (ORIGINAL) The system of claim 1 wherein the custom logic block is 2 configured to embed the identification number into the nonvolatile memory component. 1 8. (ORIGINAL) The system of claim 1 further comprising a microprocessor that 2 is configured to embed the identification number into the nonvolatile memory component. 1 9. (ORIGINAL) The system of claim 1 wherein access to the digital services is 2 rejected when the hidden non-modifiable identification number is on a list of unauthorized

1	10.	(CURRENTLY AMENDED) A method for limiting unauthorized access to		
2	digital services comprising:			
3	(a)	embedding a hidden non-modifiable identification number into a nonvolatile		
4	memory component, wherein:			
5		(i) the nonvolatile memory component is used to contain state information		
6	to pro	to provide desired functionality and enforce one or more security policies for accessing		
7	the digital services;			
8		(ii) the hidden non-modifiable identification number uniquely identifies a		
9	device containing the nonvolatile memory component; and			
10		(iii) access to the digital services is based on access rights associated with the		
11	hidden non-modifiable identification number; and			
12		(iv) the identification number is used to limit a cloning attack wherein said		
13	cloning attack comprises copying the identification number to a new device; and			
14	(b)	isolating access to the nonvolatile memory component such that access to the		
15	nonvolatile memory component is limited to a fixed state custom logic block, the nonvolatile			
16	memory com	ponent is protected such that the nonvolatile memory component is read only, and		
17	the nonvolatil	e memory component is not directly accessible via a system bus.		
1	11.	(ORIGINAL) The method of claim 10 wherein the nonvolatile memory		
2	component is	isolated by preventing a system input/output module, microprocessor, or external		
3	environment from direct access to the identification number.			
1	12.	(ORIGINAL) The method of claim 10 wherein the identification number is		
2	embedded after manufacturing.			
1	13.	(ORIGINAL) The method of claim 10 wherein the custom logic block is		
2	permitted to read the identification number.			

1	14.	(ORIGINAL) The method of claim 13 wherein a function defined in the			
2	custom logic block specifies an operation to be performed using the hidden identification				
3	number.				
1	15.	(CURRENTLY AMENDED) The method of claim 10 wherein the			
2	identification	ation number is embedded using a onetime programmable memory protected by a			
3	hardware fuse that isolates the identification number from the a microprocessor after the				
4	identification number is written.				
1	16.	(ORIGINAL) The method of claim 10 wherein the custom logic block embeds			
2	the identification number into the nonvolatile memory component.				
		· ·			
1	17.	(ORIGINAL) The method of claim 10 wherein a microprocessor embeds the			
2	identification number into the nonvolatile memory component.				
4	10	(ODICDIAL) The model of the 10 College of the 10			
1	18.	(ORIGINAL) The method of claim 10 further comprising rejecting access to			
2	•	the digital services when the hidden non-modifiable identification number is on a list of			
3	unauthorized	identification numbers.			
1	19.	(CURRENTLY AMENDED) A conditional access module (CAM), comprising:			
2	(a)	a nonvolatile memory component, wherein:			
3		(i) the nonvolatile memory component is used to contain state information			
4	to provide desired functionality and enforce one or more security policies for accessing				
5	digital services; and				
6		(ii) the nonvolatile memory component is protected from modification such			
7	that the nonvolatile memory component is read only; and				
8		(iii) access to the nonvolatile memory component is isolated;			
9	(b)	a hidden non-modifiable identification number embedded into the nonvolatile			
10	memory component, wherein:				
11		(i)the identification number uniquely identifies the CAM; and			

1

2

1

2

3

26.

27.

identification numbers.

PD-200336 Serial No. 10/085,346 the identification number is used to limit a cloning attack wherein said 12 cloning attack comprises copying the identification number to a new CAM; and 13 a fixed state custom logic block, wherein the nonvolatile memory component is 14 not directly accessible via a system bus and access to the nonvolatile memory component is 15 limited to the custom logic block. 16 (ORIGINAL) The CAM of claim 19 wherein the nonvolatile memory 1 20. component is isolated such that a system input/output module, microprocessor, or external 2 3 environment is prevented from direct access to the identification number. (ORIGINAL) The CAM of claim 19 wherein the identification number is 1 21. 2 embedded after manufacturing. 22. (ORIGINAL) The CAM of claim 19 wherein the custom logic block is 1 permitted to read the identification number. 2 1 23. (ORIGINAL) The CAM of claim 22 wherein a function defined in the custom 2 logic block specifies an operation to be performed using the hidden identification number. 1 24. (CURRENTLY AMENDED) The CAM of claim 19 further comprising a 2 onetime programmable memory protected by a hardware fuse that isolates the identification 3 number from the a microprocessor after the identification number is written. 1 (ORIGINAL) The CAM of claim 19 wherein the custom logic block is 2 configured to embed the identification number into the nonvolatile memory component.

is configured to embed the identification number into the nonvolatile memory component.

rejected when the hidden non-modifiable identification number is on a list of unauthorized

(ORIGINAL) The CAM of claim 19 further comprising a microprocessor that

(ORIGINAL) The CAM of claim 19 wherein access to the digital services is

1	28.	(CORRENTLY AMENDED) An article of manufacture for influing			
2	unauthorized access to digital services comprising:				
3	(a)	means for embedding a hidden non-modifiable identification number into a			
4	nonvolatile memory component, wherein:				
5		(i) the nonvolatile memory component is used to contain state information			
6	to pro	ovide desired functionality and enforce one or more security policies for accessing			
7	the digital services;				
8		(ii) the hidden non-modifiable identification number uniquely identifies a			
9	device containing the nonvolatile memory component; and				
10		(iii) access to the digital services is based on access rights associated with the			
11	hidden non-modifiable identification number; and				
12		(iv) the identification number is used to limit a cloning attack wherein said			
13	cloning attack comprises copying the identification number to a new device; and				
14	(b)	means for isolating access to the nonvolatile memory component such that			
15	access to the	identification number is limited to a fixed state custom logic block, the nonvolatile			
16	memory component is protected from modification such that the nonvolatile memory				
17	component is read only, and the nonvolatile memory component is not directly accessible via a				
18	system bus.				
1	29.	(ORIGINAL) The article of manufacture of claim 28 wherein the nonvolatile			
_		•			
2	memory component is isolated by preventing a system input/output module, microprocessor, or				
3	external envi	conment from direct access to the identification number.			
1	30.	(ORIGINAL) The article of manufacture of claim 28 wherein the identification			
2	number is embedded after manufacturing.				
		(OPICPIAL) EL .: 1 C . C			
1	31.	(ORIGINAL) The article of manufacture of claim 28 wherein the custom logic			

block is permitted to read the identification number.

- 1 32. (ORIGINAL) The article of manufacture of claim 31 wherein a function 2 defined in the custom logic block specifies an operation to be performed using the hidden 3 identification number.
- 33. (CURRENTLY AMENDED) The article of manufacture of claim 28 wherein the identification number is embedded using a onetime programmable memory protected by a hardware fuse that isolates the identification number from the a microprocessor after the identification number is written.
- 1 34. (ORIGINAL) The article of manufacture of claim 28 wherein the custom logic 2 block embeds the identification number into the nonvolatile memory component.
- 1 35. (ORIGINAL) The article of manufacture of claim 28 wherein a microprocessor 2 embeds the identification number into the nonvolatile memory component.
- 1 36. (ORIGINAL) The article of manufacture of claim 28 further comprising means 2 for rejecting access to the digital services when the hidden non-modifiable identification number 3 is on a list of unauthorized identification numbers.